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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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OCT 28 2002

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Application of: Nehls *et al.*

Application No.: 09/417,522

Group Art Unit: 1631

Filed: October 13, 1999

Examiner: Moran, M.

For: NOVEL HUMAN
POLYNUCLEOTIDES AND THE
POLYPEPTIDES ENCODED
THEREBY

Attorney Docket No.: 8535-027-999

AMENDMENT AND RESPONSE UNDER 37 C.F.R. § 1.111

Box AF
Commissioner for Patents
Washington, D.C. 20231

Sir:

In response to the Final Office Action mailed April 23, 2002, in connection with the above-captioned application, please consider the remarks below. Applicants submit concurrently herewith (1) a Petition for Extension of Time for three months from July 23, 2002 to and including October 23, 2002; (2) Exhibit A, a copy of the claims as they will be pending upon entry of the present Amendments; and (3) a Notice of Appeal.

REMARKS

Claims 3 and 5-13 are pending in the present application.

I. THE INVENTION

The present invention relates, in part, to polynucleotides discovered using gene trap technology. The gene trap vectors used in the invention can integrate into intron sequences of cellular genes. The cellular genes in which the vector are inserted (the "trapped genes") may be cloned easily since the vectors are designed such that fusion transcripts are formed with the trapped genes. The fusion transcripts comprise exon sequences of the trapped gene appended to a selectable marker that facilitates isolation by polymerase chain reaction-based protocols or by cDNA cloning. In some cases, integration disrupts the